Amendments to the Claims

Please amend claims as follows:

1-7. (Cancelled)

- 8. (Original) A polymerization method comprising reacting a geminally disubstituted olefin feed, a carbon monoxide feed and an ethylene feed under free radical polymerization conditions to form a geminally disubstituted olefin-carbon monoxide-ethylene polymer.
- 9. (Original) The method of claim 8 wherein the polymerization conditions range in temperature from about 50°C to about 300°C and range in pressure from about 500 psig to about 30,000 psig.
- 10. (Original) The method of claim 8 wherein the polymerization is conducted in the presence of a solvent.
- 11. (Original) The method of claim 8 wherein the polymerization is conducted in the presence of a free radical initiator.
- 12. (Original) The method of claim 11 wherein said free radical initiator is selected from one of organic peroxides and azo compounds.
- 13. (Original) The method of claim 8 wherein said polymer comprises a polymer having a number average molecular weight of from about 200 to about 150,000.

- 14. (Original) The method of claim 8 wherein said geminally disubstituted olefin comprises isobutylene.
- 15. (Original) The method of claim 8 wherein said polymer comprises 1-40 mole % of said geminally disubstituted olefin, 3-40 mole % of said carbon monoxide, and 5-80 mole % of said ethylene.
- 16. (Original) The polymerization method of claim 8 further comprising reacting a feed containing monomer X with said geminally disubstituted olefin feed, said carbon monoxide feed and said ethylene feed under free radical polymerization conditions to form a geminally disubstituted olefin-carbon monoxide-ethylene-X polymer, wherein said monomer X comprises a free radical polymerizable monomer or mixtures of monomers.
- 17. (Original) The method of claim 16 wherein said monomer X is selected from the group consisting of C₃ to C₃₀ alpha-olefins, C₃ to C₃₀ internal olefins, styrene, styrene derivatives, unsaturated mono- and dicarboxylic acids of 3-20 carbon atoms, esters of such unsaturated mono- and dicarboxylic acids, vinyl esters of saturated carboxylic acids wherein the acid group has 1-18 carbon atoms, vinyl alkyl ethers wherein the alkyl group has 1-18 carbon atoms, halogenated ethylene derivatives, methyl vinyl ketone, 1-vinylpyrrolidone, acrylonitrile, acrylamide, acrolein, allyl alcohol, allyl chloride, allyl acetate, and mixtures thereof.

18. (Currently Amended) The metod of claim 16 wherein said mixtures of monomer X are selected from one of raffinate I and raffinate II comprise about:

34 wt% 1-Butene

20 wt% 2-Butenes

25 wt% Isobutylene

17 wt% Butanes

0.5 wt% Butadiene.

19-20 (Cancelled)

21. (New) The method of claim 16 wherein said mixtures of monomer X comprise about:

45 wt% 1-Butene

25 wt% 2-Butenes

4 wt% Isobutylene

21 wt% Butanes

0.3 wt% Butadiene.